

Capacity Development

A Strategy for Kentucky's Public Water Systems

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To Protect and Enhance Kentucky's Environment

Kentucky
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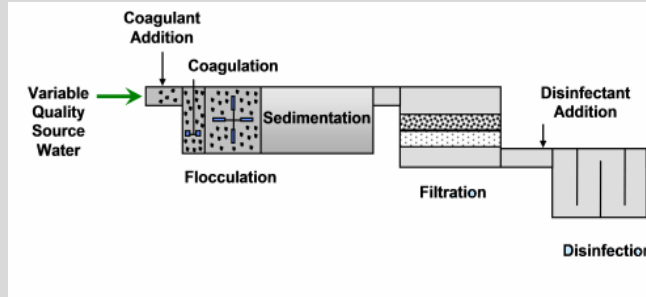
Safe Drinking Water Act (SDWA)

- Reauthorized by Congress in 1996
- Section 1420:
 - Established Drinking Water State Revolving Fund (DWSRF)
 - Required states create a Capacity Development (CD) Program
 - **Goal: PWS sustainability & resiliency**
- Kentucky Revised Statutes (KRS) 151.630 directs Energy & Environment Cabinet develop a program consistent with federal law
- Division of Water (DOW) developed program strategy



What is capacity?

- **Technical**



- **Managerial**



- **Financial**



Capacity Development Strategy

Requirements	Reality
1. Criteria to identify & prioritize PWS needing to improve capacity	Are we using accurate data & metrics?
2. Identify factors encouraging or impairing capacity	Are we properly identifying factors?
3. Use authority & resources of SDWA to enhance PWS capacity	What authority? What resources? Using resources to fullest extent?
4. Establish baseline & measure improvements in PWS capacity	See number one.
5. Involve stakeholders in state efforts to improve PWS capacity	Are we? How do we do this?

Program Challenges

- Ever-changing environment
 - Regulations, leadership, staffing
- Capacity Development regulations
- Sanitary Survey – Functionality & value
- Providing assistance & involving stakeholders to help PWS improve capacity
 - Asset management & Capital Improvement plans

Drinking Water Sanitary Survey

PLANT AND DISTRIBUTION SYSTEM OPERATIONS

FW ID: 94-049-0001 **APWS:**

Agency/Issued Number: 94-049-0415 **WASH/Supply:**

City/County: **County:**

FW Name: **FW Type:**

CTA/Regulation: **FWT Longitude:** **FWT Latitude:**

CTA/Regulation:

TREATMENT PROCESS SUMMARY

Process Name	Treatment Processes/Units
Secondary Screen	Flow-Through Fine Mesh P-1
Re-aeration Flow	Aeration <input type="checkbox"/> Diffuser <input type="checkbox"/>
Indefinite/Unknown	Flow Diffuser
Flow	Process (if different than type):
Total Flow (in MGAL) used	Total Distribution Equipment: gal/min
Does not consist of all TPT used (1 State facility in the town has been assigned to District of P-1)	Yes <input type="checkbox"/> No <input type="checkbox"/>

COMMENTS:

Pre-Distribution Treatment: ☐

Post-Distribution: ☐

Flow and Rate: ☐

Town and Other: ☐

Town and Unpiped External: ☐

COMMENTS:

CHEMICAL SUMMARY

Pre-Distribution Treatment	Primary Coagulant
Post-Distribution: <input type="checkbox"/>	Secondary Coagulant: Chlorine <input type="checkbox"/>
Flow and Rate: <input type="checkbox"/>	Corrosion Control: <input type="checkbox"/>
Town and Other: <input type="checkbox"/>	Unpiped: <input type="checkbox"/>
Town and Unpiped External: <input type="checkbox"/>	Fluoride Equipment: <input type="checkbox"/>

PLANT SCHEMATIC (OPTIONAL)

Indicate the flow direction through the treatment plant.

Flow (in) to the town or outflow into the town is indicated on the schematic.

- ☐ Town water distribution
- ☐ Pre-distribution treatment
- ☐ Post-Distribution (outflow into or outflow from town)
- ☐ Flow/Facility (outflow into or outflow from town)
- ☐ Town landfill

- ☐ Lake or reservoir (inflow into or outflow from town)
- ☐ Chemical treatment

[illegible]

The Need

- DOW developing tool to assess state of the industry in Kentucky
 - Data from Sanitary Survey, compliance, infrastructure, and data from stakeholders
- Data can be used to prioritize assistance:
 - Infrastructure needs
 - Technical assistance
 - Training PWS staff
 - Implement Kentucky's Drinking Water Action Plan (DWAP)
- Are you committed to ensure the viability of PWS now & for the Future?
- Will you help us to revise the Capacity Development Strategy?

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